

Grouting pump - IC 120

Field of application

The IC 120 grouting pump is intended for injection of cement and bentonite mixtures during injection works, such as injection of micropiles and anchors, reinforcement and sealing of foundation soils, etc.

Working principle

The pump is driven by an electrohydraulic and hydraulic aggregate located on a shared frame with the pump. The operating part consists of two single-acting plunger pumps driven by linear hydraulic motors. Synchronization to a double-acting cycle is carried out via induction sensors and an electrohydraulic switchboard.

The IC 120 pump operates in 2 performance positions (fast / slow operation). Switching between both performance positions is carried out by a hydraulic valve. It is possible to control the flow and pressure within each of the positions. The discharge pipes are equipped by an oil protection with a manometer and a valve for pressure relief. The discharge pipes are ended by screw coupling for connection of high-pressure hoses.

The electroinstallation consists of an electric switchboard equipped with Start and Stop button for normal operation. A Central Stop button is used as a safety element. The correct rotation direction of the electromotor is checked by the phase sequence control.

Advantages

- high operating pressure
- smooth regulation of the amount and pressure of the injected mixture
- automatic cooling of the hydraulic circuit
- monitoring of the pumped amount (cycle counter)
- robust construction that allows working in demanding conditions
- easy maintenance
- possibility to use separately or as a part of an injection station (Grouting centre IC-2)



Parameter	IC 120
Maximum performance [l/min]	21 / 51
Maximum operating pressure [MPa]	10 / 3,5
Amount of pumped mixture in 1 cycle [l]	2,85
Electric engine power [kW]	5,5
Maximum mixture granularity [mm]	0,5
Maximum density of the mixture [kg/l]	2
Outlet [mm]	DN 25
Dimensions	
Length [mm]	1210
Width [mm]	750
Height [mm]	1740
Weight (with oil filling) [kg]	600